

2CES-4-40S 2CC-4.2-40S 4HP Compressor Bitzer Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 2CES-4-40S,2CC-4.2-40S
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 10000Pcs/Year



Product Specification

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Cylinders: 2
- Rated Power: 4HP
- Refrigerant: R22
- Displacement: 16.2 M3/hr
- Highlight: **Bitzer semi hermetic compressor**, **4HP Bitzer compressor**, **2CES-4-40S compressor**



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Our Product Introduction

Product Description

Model Replacement & Application Range

The **2CES-4-40S** is the updated replacement for the previous **2CC-4.2-40S** model. This R22 refrigeration compressor is designed for medium-temperature and air-conditioning applications, with condensing temperatures up to 62°C.

Optimized Valve Plate & High Efficiency

An optimized valve plate design, efficient suction and discharge valve assemblies, and reduced clearance volume help minimize internal losses. The ECOLINE series achieves up to **12% higher COP** than previous product generations, supporting improved energy efficiency.

Wear-Resistant Drive Components

The semi-hermetic reciprocating compressor uses a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help reduce friction and mechanical wear, supporting durable operation.

Compact Installation Design

Its compact structure minimizes installation space requirements, giving equipment manufacturers greater flexibility when integrating the compressor into refrigeration systems and condensing units.

Product Image



Technical Specification

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Model	2CES-4-40S
Old Model	2CC-4.2-40S
Rated power	4HP
Displacement (1450/min)	16.2 m³/hr
Oil charge	1.5L
Weight	70 KG
Capacity regulation	–
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max operating current	17.4/10 A
Max power consumption	5.6 kW

Model	Motor Version	Displace -ment (1450/min)	Cylinders	Oil charge	Weight	Pipe Connections				Motor connection	Electrical data	
						DL Dischargeline		SL Suction line			Max. operating current	Max. power consumption
		m3/h		L	kg	mm	pouce	mm	pouce	Volt	Amp.	kW
2KES-05(Y)	1	4.06	2	1	43	12	1/2	16	5/8	Δ / Y 220-240Δ/3/50 380-420Y/3/50 265-290Δ/3/60 440-480Y/3/60	4.9/2.8	1.5
2JES-07(Y)	1	5.21	2	1	43	12	1/2	16	5/8		6.4/3.7	1.9
2HES-1(Y)	2	6.51	2	1	44	12	1/2	16	5/8		6.7/3.8	2
2HES-2(Y)	1				45						7.8/4.5	2.4
2GES-2(Y)	1	7.58	2	1	45	12	1/2	16	5/8		8.7/5.0	2.7
2FES-2(Y)	2	9.54	2	1	45	12	1/2	16	5/8		9.2/5.3	2.9
2FES-3(Y)	1				47						10.7/6.1	3.4
2EES-2(Y)	2	11.4	2	1.5	68	16	5/8	22	7/8		10.4/6.0	3.3
2EES-3(Y)	1				71						13.4/7.5	3.8
2DES-2(Y)	2	13.4	2	1.5	68	16	5/8	22	7/8		13.4/7.5	4
2DES-3(Y)	1				71						15.0/8.6	4.6
2CES-3(Y)	2	16.2	2	1.5	70	16	5/8	22	7/8		15.8/9.1	5
2CES-4(Y)	1				70						17.4/10.0	5.6

FAQ

Q1: What information is needed to select this compressor for a refrigeration system?

For a compressor for medium-temperature refrigeration, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient temperature, power supply and frequency. These details help verify the operating conditions before selection.

Q2: What electrical supply connections are available for the 2CES-4-40S?

The available connections include 220-240 V Δ or 380-420 V Y at 50 Hz, and 265-290 V Δ or 440-480 V Y at 60 Hz. The electrical connection must match the actual site supply and motor wiring requirements.

Q3: Can the 2CES-4-40S operate with a frequency inverter?

The ECOLINE series supports frequency-inverter operation within a 30–70 Hz range. Confirm the motor configuration, inverter compatibility and operating conditions before setting the frequency range.

Q4: What should be checked when replacing the previous compressor model?

Check the refrigerant, operating conditions, electrical connections, oil charge and piping configuration. Although the 2CC-4.2 and 2CES-4 are listed as replaceable base models, their electrical data may differ, so verify the specific configuration before installation.

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